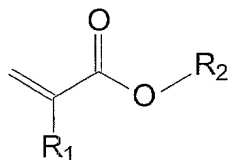


What is claimed is:

1. A pressure-sensitive adhesive composition comprising polymers and/or copolymers based at least predominantly on (meth)acrylic acid and/or derivatives thereof, wherein said composition possesses an outgassing level of not more than 50 µg/g in total, preferably less than 10 µg/g, when said composition is measured by the tesa method.

2. The pressure-sensitive adhesive composition as claimed in claim 1, wherein the polymers and/or copolymers are prepared using at least the following monomers:  
(a) from 65 to 100% by weight of acrylic and/or methacrylic acid derivatives of the general formula



where  $R_1 = \text{H or CH}_3$  and  $R_2 = \text{an alkyl chain of 2 to 20 carbon atoms,}$   
(b) from 0 to 35% by weight of vinyl compounds containing functional groups.

3. A process for preparing a pressure-sensitive adhesive composition as claimed in at least one of the preceding claims, using a polyacrylate solution obtainable by free-radical addition polymerization, which comprises a concentration step in which

- ♦ after polymerization, an entrainer is added to the polyacrylate solution,
- ♦ the entrainer-admixed polyacrylate solution is passed into an extruder in which said solution is subjected to a carrier distillation,
- ♦ the concentration thus produces a polyacrylate composition which is processed further from the melt.

4. The process as claimed in claim 3, wherein in at least one step further following concentration, a postpurification is conducted by adding the same entrainer again, or a further entrainer, to the concentrated polyacrylate composition and carrying out a further carrier distillation in the extruder,

preferably choosing in each case higher temperatures and lower vacuums than in the preceding distillation step.

5. The process as claimed in at least one of claims 3 and 4, wherein  
at least the extruder in the concentration step is a corotating or counterrotating twin-  
5 screw extruder.

6. The process as claimed in at least one of claims 3 to 5, wherein  
steam is used as entrainer.

10 7. The process as claimed in at least one of claims 3 to 6, wherein  
♦ the concentrated polyacrylate composition is applied to a backing material  
♦ and the polyacrylate composition on the backing material is subjected to a  
crosslinking reaction.

15 8. The process as claimed in claim 7, wherein  
crosslinking is carried out using UV light in a wavelength range from 250 to 400 nm,  
with the proviso that the output of light in the wavelength range from 300 to 400 nm  
makes up at least 70%, very preferably 90%, of the total irradiated light output.

20 9. An adhesive tape, in particular for use in the electronics industry, comprising a film,  
applied to one or both sides of a backing material, of a pressure-sensitive adhesive  
composition as claimed in either of claims 1 and 2.

10. The adhesive tape as claimed in claim 9, comprising  
25 a backing material having a very low outgassing tendency, preferably of less than  
5 µg/g.